OMB No. 0651-0011

INFORMATION DISCLOSURE **STATEMENT**

Atty. Docket No.: 53934US010

Serial No.: Divisional

09/228,712

Applicant(s): William E. Foltz, Robert A. Asmus and Ronald G. Lulich

Filing Date: December 11, 2001

Group: /65/

Examiner	Document Number	Date	Name	Class	SubClass	Filing Date If
Initial 176	3,239,429	03/08/66	Menolasino et al.	195	54	
	3,440,144	04/22/69	Andersen	195	103.5	
	3,661,717	05/09/72	Nelson	195	103.5	
	4,115,068	09/19/78	Josyln	422	56	
	4,145,186	03/20/79	Andersen	23	232	
	4,240,926	12/23/80	McNeely	252	408	
	4,304,869	12/08/81	Dyke	435	296	
	4,580,682	04/08/86	Gorski et al.	206	569	
	4,594,223	06/10/86	Dyke et al.	422	56	
	4,596,696	06/24/86	Scoville, Jr.	422	61	
	4,636,472	01/13/87	Bruso	435	287	
	4,642,165	02/10/87	Bier	203	12	
	4,643,876	02/17/87	Jacobs et al.	422	23	
	4,650,479	03/17/87	Insley	604	358	
	4,692,307	09/08/87	Bruso	422	58	
	4,699,765	10/13/87	Hambleton	422	57	
	4,739,881	04/26/88	Bruso	206	305	
	4,797,255	01/10/89	Hatanaka et al.	422	28	
	4,756,882	07/12/88	Jacobs et al.	422	23	
	4,828,797	05/09/89	Zwarun et al.	422	55	
	4,839,291	06/13/89	Welsh et al.	435	296	
	4,863,688	09/05/89	Schmidt et al.	422	28	
	5,073,488	12/17/91	Matner et al.	435	31	
	5,084,239	01/28/92	Moulton et al.	422	22	
	5,115,166	05/19/92	Campbell	315	111.21	
	5,178,829	01/12/93	Moulton et al.	422	23	
	5,184,046	02/02/93	Campbell	315	111.21	
	5,217,901	06/08/93	Dyckman	435	291	
	5,223,401	06/29/93	Foltz et al.	435	18	
	5,252,484	10/12/93	Matner et al.	435	288	

I GITOMEN

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820 (Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce

OMB No. 0651-0011

INFORMATION DISCLOSURE STATEMENT		Atty. Docket No.: 53934US010		Serial No.: Divisional of 09/228,712				
		Applicant(s): William E. Foltz, Robert A. Asmus and Ronald G. Lulich						
		Filing Date: D	Group: 1651					
		U.S. PATENT	DOCUMENTS					
Examiner Initial	Document Numb	er Date	Name	Class	SubClass	Filing Date II		
126	5,389,336	02/14/95	Childers	422	28			
	5,405,580	04/11/95	Palmer	422	28			
	5,418,167	05/23/95	Matner et al.	435	288			
	5,482,684	01/09/96	Martens et al.	422	119			
	5,486,459	01/23/96	Burnham et al.	435	31			
	5,500,184	03/19/96	Palmer	422	2			
	5,516,648	05/14/96	Malchesky et al.	435	31			
	5,552,320	09/03/96	Smith	435	287.4			
	5,667,753	09/16/97	Jacobs et al.	422	29			
	5,674,450	10/07/97	Lin et al.	422	29 .			
	5,739,004	04/14/98	Woodson	435	31			
	5,770,393	06/23/98	Dalmasso et al.	422	31			
	5,785,934	07/28/98	Jacobs et al.	427	29			
	5,788,941	08/04/98	Dalmasso et al.	422	33			
	5,795,730	08/18/98	Tautvydas	435	31			
	5,801,010	09/01/98	Falkowski et al.	435	31			
	5,830,683	11/98	Hendricks et al.	435	31			
17	5,856,118	01/05/99	Dalmasso	435	31			
V	5,866,356	2/99	Albert et al.	435	31			
				 				
EXAMINE	 R		Date Considered		<u> </u>			
	GITOME	12/18/03						
conformance and	not considered. Include co		in conformance with MPEP (communication to applicant.	609; Draw line				
Based on Form P Also form PTO-1			Patent and Trademark (Office, U.S. De	epartment of (Iommerce		

OMB No. 0651-0011 Atty. Docket No.: 53934US010 Serial No.: Divisional of INFORMATION 09/228,712 **DISCLOSURE STATEMENT** Applicant(s): William E. Foltz, Robert A. Asmus and Ronald G. Lulich Filing Date: December 11, 2001 Group: 165-1 FOREIGN PATENT DOCUMENTS Document Number Date of Country Class SubClass Translation Publication No 11.6 WO 94/28164 12/08/94 PCT PCT WO 97/26924 07/31/97 WO 98/46994 10/22/98 **PCT** 0 254 428 A 01/27/88 **EPO** 0 255 229 A2 **EPO** 02/03/88 03/27/91 **EPO** 0 419 282 B1 0 421 760 A1 04/10/91 **EPO** 0 421 760 B1 03/23/94 Europe 0 638 650 A1 02/15/95 Europe 04/17/96 0707 186 A1 Europe 676743 12/20/94 AU 62/115266 .05/26/87 JP (English Abstract) 62/205748 09/10/87 JP (English Abstract) 62/205750 09/10/87 (English Abstract) 62/253357 11/05/87 JP (English Abstract) 63/079579 JP 04/09/88 (English Abstract) 63/275517 11/14/88 (English Abstract) OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.) Alfa et al., "Comparison of Ion Plasma, Vaporized Hydrogen Peroxide, and 100% 20 Ethylene Oxide Sterilizers to the 12/88 Ethylene Oxide Gas Sterilizer", Infection Control and Hospital Epidemiology, Vol. 17, No. 2, February 1996, pp. 92-100 Baker, et al., "Thermal Stabilization of Fungal B-Glucosidase through NG-Glutaraldehyde Crosslinking," Biotechnology Letters, vol. 10, No. 5, 325-330 (1988).**EXAMINER Date Considered**

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820 (Also form PTO-1449)

61 romen

OMB No. 0651-0011 INFORMATION Atty. Docket No.: 53934US010 Serial No.: Divisional of 09/228,712 DISCLOSURE **STATEMENT** Applicant(s): William E. Foltz, Robert A. Asmus and Ronald G. Lulich Filing Date: December 11, 2001 Group: 1651 OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.) Barbaric, et al., "Stabilization of Glycoenzymes by Cross-linking of Their 26 Carbohydrate Chains," Annals New York Academy of Sciences, vol. 542, pp. 173-179 (1988). Corry, J., "The Effect of Sugars and Polyols on the Heat Resistance of Salmonellae," J. Appl. Bact., vol. 37, pp. 31-43 (1974). Gottschalk, et al., "Chemically Crosslinked Lactate Dehydrogenase: Stability and Reconstitution after Glutaraldehyde Fixation," Biotechnology and Applied Biochemistry, vol. 9, No. 5, pp. 389-400 (Oct. 1987). Hoshino, et al., "A study on the thermostability of microencapsulated glucose oxidase, "J. Microencapsulation, Vol. 6, No. 2, pp. 205-211 (1989). Ichiba, et al., "Cation-induced thermostability of yeast and Escherichia coli pyrophosphatases," Biochem. Cell Biol., vol. 66, pp. 25-31 (Jan. 1988). Kokufuta, et al.," Use of Polyelectrolyte Complex-Stabilized Calcium Alginate Gel for Entrapment of B-Amylase", Biotechnology and Bioengineering, vol. 32, pp. 756-759 (1988). Laurence, "Fluorescence Techniques for the Enzymologist", Methods in Enzymology, Vol. 4, S. P. Colowick and N.O. Kaplan, Eds., Academic Press, New York, 1957. Lenders, et al. "Chemical Stabilization of Glucoamylase from Aspergillus niger against Thermal Inactivation," Biotechnology and Bioengineering, Vol. 31, pp. 267-277 (1988). Leonowicz, et al., "Improvement in stability of an immobilized fungal laccase," Applied Microbiology and Biotechnology, Vol. 29, No. 2-3, pp. 129-135 (1988). Mecke, "Hydrogen Peroxide Plasma - an Interesting Microbiocidal Concept", Hygiene + Medizin, 1992:17:pp.537-543 Olsen, et al. "Improvement of bacterial B-glucanase thermostability by glycosylation," Journal of General Microbiology, Vol. 137, pp. 579-585 (1991). Redway, et al., "Effect of Carbohydrates and Related Compounds on the Long-Term Preservation of Freeze-Dried Bacteria," Cryobiology, Vol. 11, pp. 73-79 (1974).**Date Considered EXAMINER** Routomen Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce

OMB No. 0651-0011 Atty. Docket No.: 53934US010 **INFORMATION** Serial No.: Divisional of 09/228,712 DISCLOSURE Applicant(s): William E. Foltz, Robert A. Asmus and Ronald STATEMENT G. Lulich Filing Date: December 11, 2001 Group: 651 OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.) RG Roth, "Fluorimetric Assay of Enzymes", Methods of Biochemical Analysis, Vol. 17, D. Block, Ed., Interscience Publishers, New York, 1969. Rutala et al., "Comparative evaluation of the sporicidal activity of new lowtemperature sterilization technologies: Ethylene oxide, 2 plasma sterilization systems, and liquid peracetic acid", AJIC, Vol. 26, No. 4, August 1998, pp. 393-398 Smith, et al., "Effect of Environmental Conditions during Heating on Commercial Spore Strip Performance," Applied and Environmental Microbiology, Vol. 44, No. 1, pp. 12-18 (Jul. 1982). Srivastava, R., "Studies on stabilization of amylase by covalent coupling to soluble polysaccharides," Enzyme Microb. Technol., Vol. 13, No. 2, pp. 164-170 (Feb. 1991). Srivastava, R., "Effect of glycosylation of bacterial amylase on stability and active site conformation," Indian Journal of Biochemistry & Biophysics, Vol. 28, No. 2, pp. 109-113 (Apr. 1991). Sugiyama, H., "Studies on Factors Affecting the Heat Resistance of Spores of Clostridium Botulinum," Journal of Bacteriology, Vol. 62, pp. 81-96 (1951). Suwa, et al., "Effects of food emulsifiers on spoilage of canned coffee caused by thermpohilic spore-forming bacteria", (1988), pp. 706-8 Toda, "Antimicrobial activity of polyglycerol fatty acid esters and their use in foods" (1988), pp. 69-74 Torchilin, et al., "Stabilization of Subunit Enzymes by Intramolecular Crosslinking with Bifunctional Reagents," Annals New York Academy of Sciences, Vol. 434, pp. 27-30 (1984). Udenfriend, "Fluorescence in Enzymology", Fluorescence Assay in Biology and Medicine, Academic Press, New York, pp.312-348 (1962). Vesley, et al., "Fluorimetric Detection of a Bacillus stearothermophilus Spore-Bound Enzyme, \alpha-D-Glucosidase, for Rapid Indication of Flash Sterilization Failure," Applied and Environmental Microbiology, Vol. 58, pp. 717-719 (Feb. 1992). **EXAMINER Date Considered** (GITOMEN.

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820 (Also form PTO-1449) Patent and Trademark Office, U.S. Department of Commerce